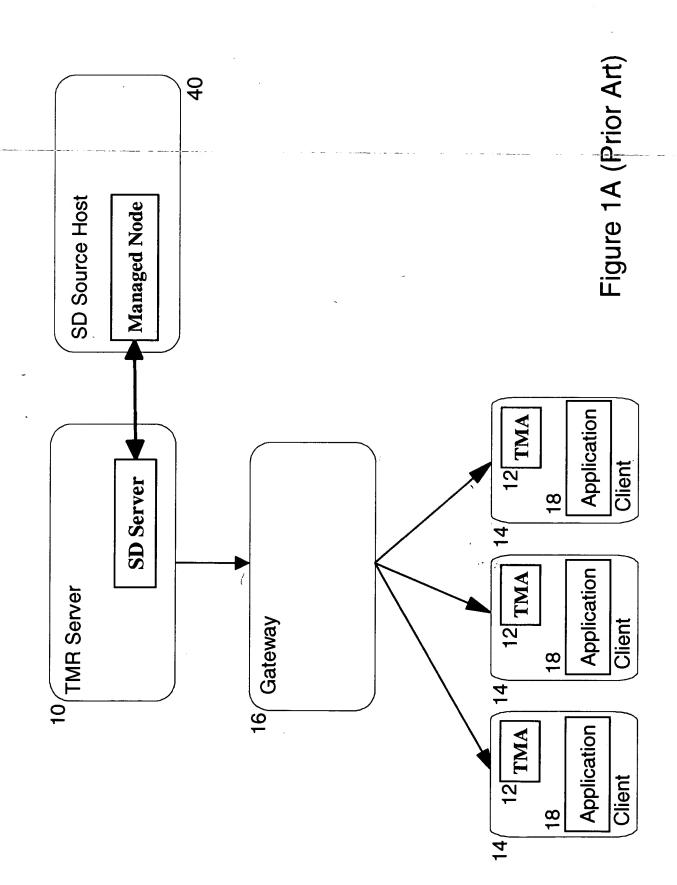
1/27 Crudele et al. G.H.Z. GB920000068US1



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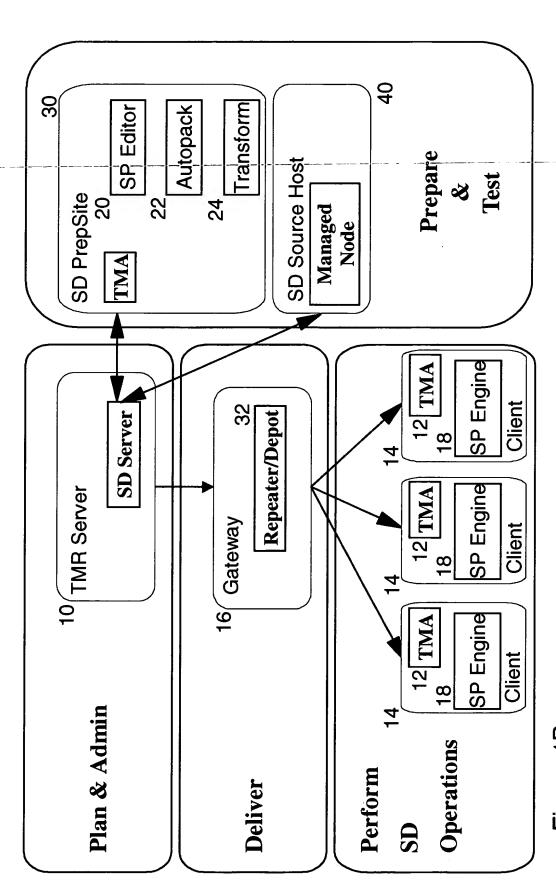


Figure 1B

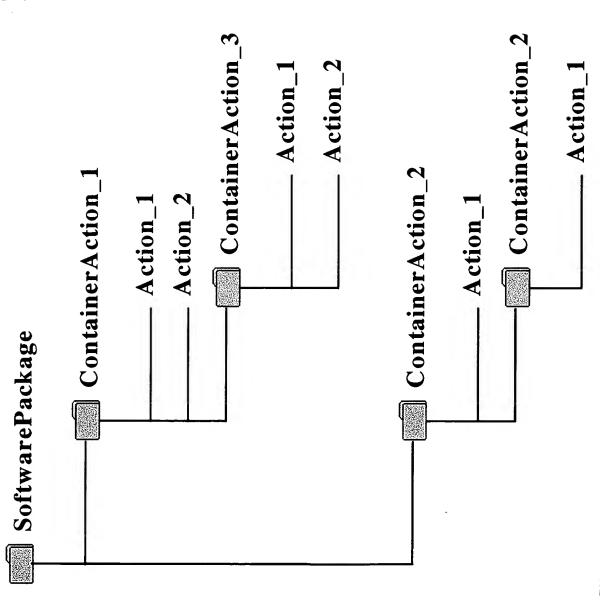
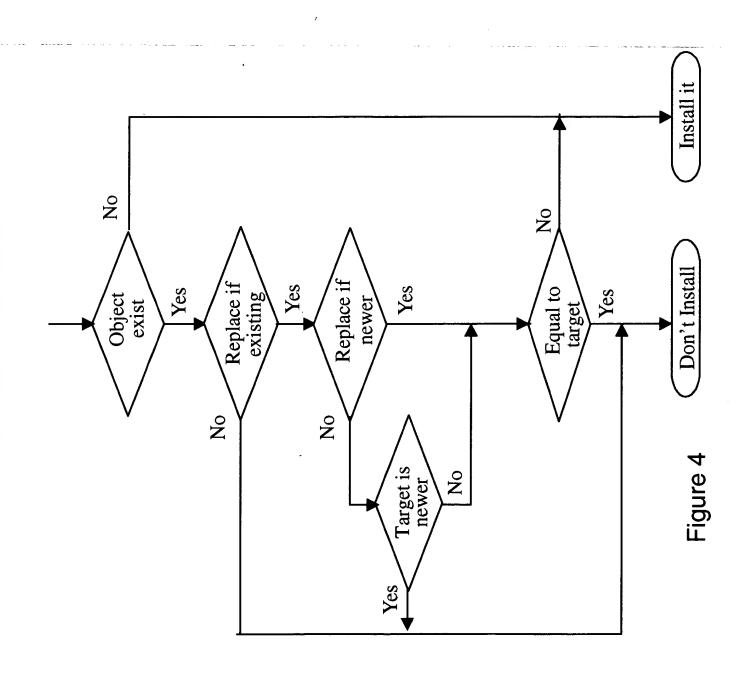


Figure 2

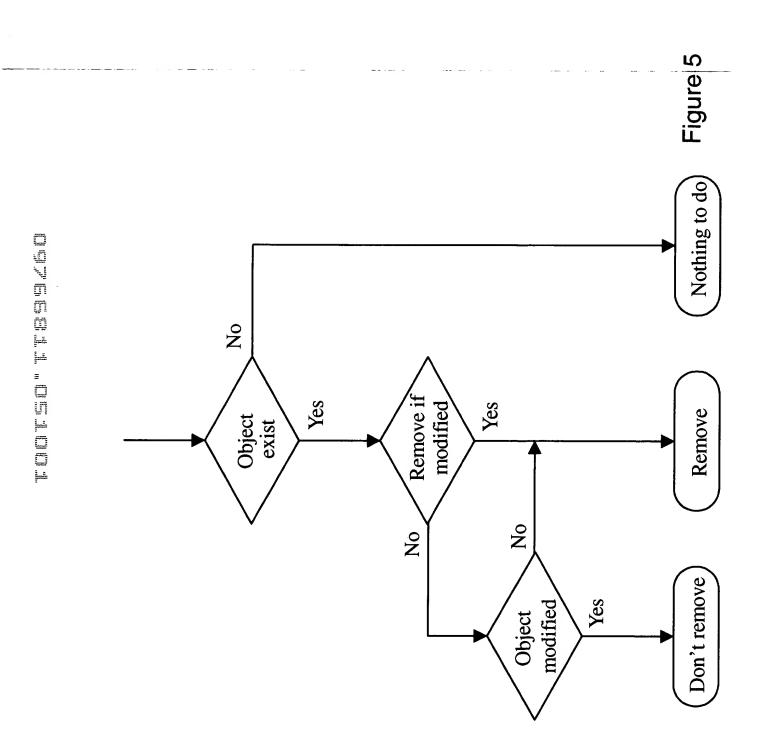
4/27 Crudele et al. G.H.Z. GB920000068US1 Directory source destination *InstallableObject* is_shared compression_method Filesource destination has a Remove Object can_execute(operation, phase) do_execute(operation, phase) Action replace_if_existing replace_if_newer remove_if_modified AddObject extends condition AddFile AddDirectory stop_on_failure extends Container SoftwarePackage name Version

рчг шчий

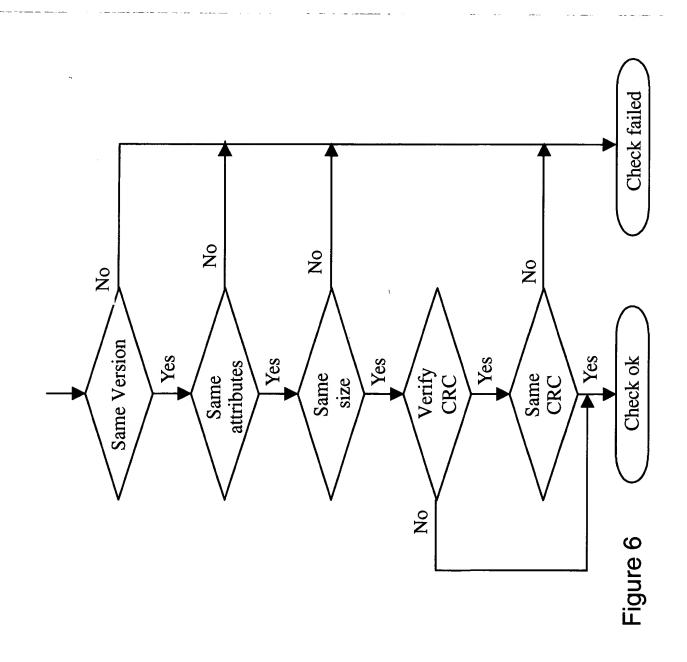
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Object related actions Shell Folder and Shortcut INI file Section and Item NT Service Profile Item Desktop Object, Folder, Program, Shadow Directory and File Text file line, command, token Symbolic link

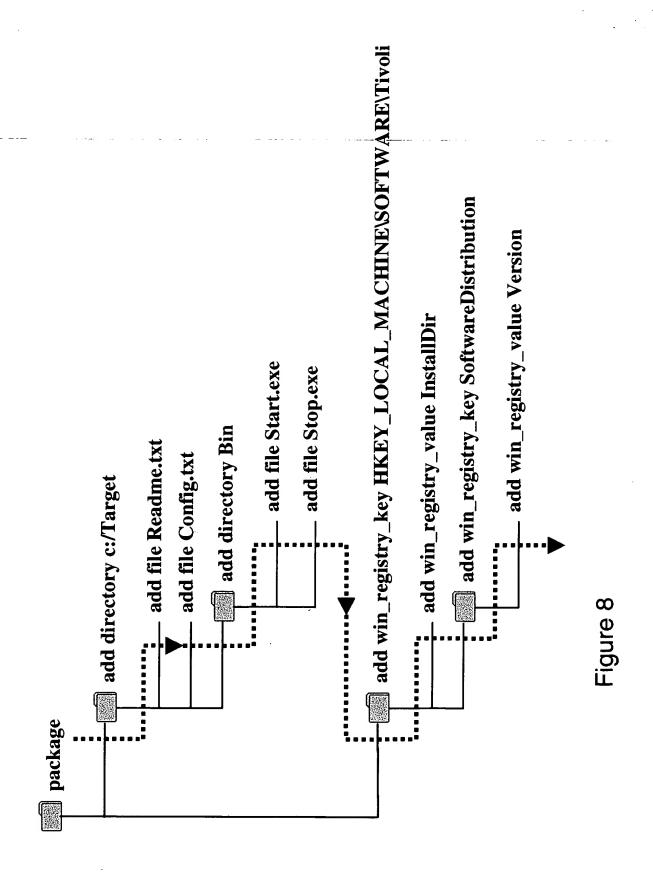
Check disk space Restart System actions and Checks

Execute user program
Execute MS Setup program
Execute InstallShield program
Execute CID Program

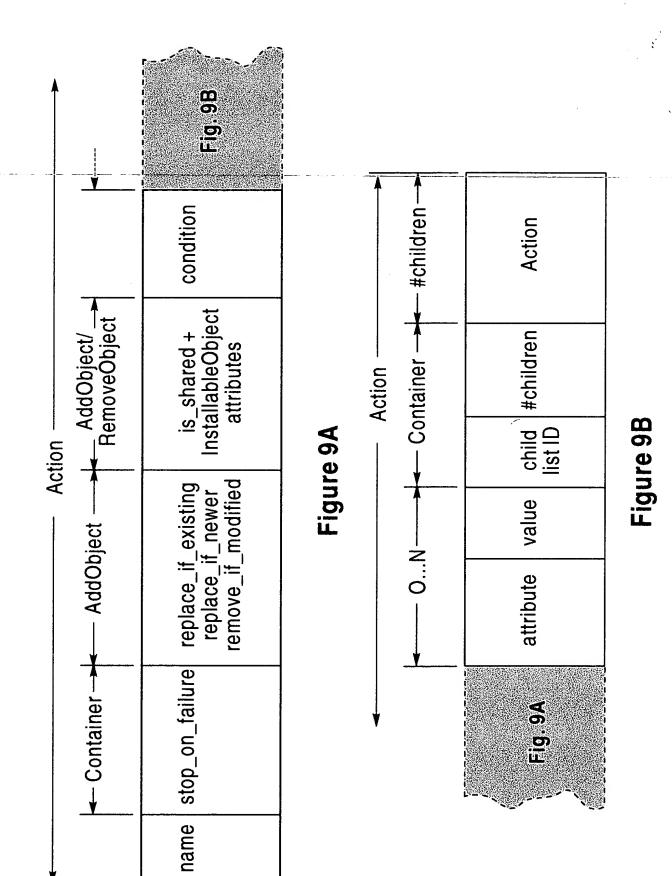
Program actions

Figure 7

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SPDF" -- Signature of SPD Software Package v4.0 "TME 10

package

name = "Software Package"

version = 1.0"

check_disk_space

volume = C:, 25M volume = D:, 35M

Pnd

generic_container

condition = "\$(os_name) == Windows_NT"

-Container stanza

add win_registry_key

parent_key = HKEY_LOCAL_MACHINE\SOFTWARE

key = "Registry Key"

win_registry_key

-Attribute value pair "Nested Registry Key" кеу

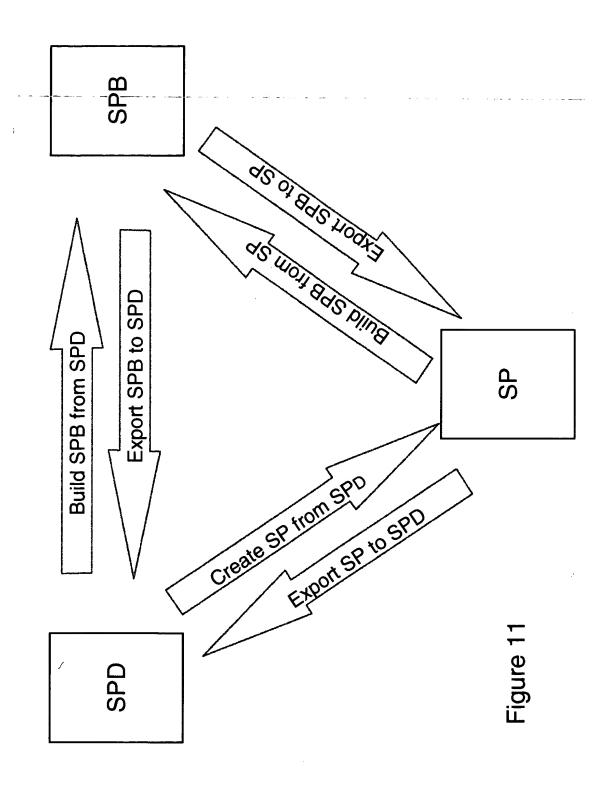
end end

end

end

Figure 10

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•		•	
add directory		add directory	
location	= c:/Winnt/System32/	location	= c:/Winnt/System32/
destination	= c:/Winnt/System32/	destination	$= $(system_dir)$
,			
file		file	
name	= MyApp.DLL	name	= MyApp.DLL
end		end	
end		end	
add directory		add directory	
location	= c:/MyApp	location	= c:/MyApp
destination	= c:/MyApp	destination	= \$(target_dir)
descend_dirs	⊼ =	descend_dirs	
end		end	

Figure 12A

add directory

condition = "\$(os_name) LIKE 'Win*'"

c:/winnt/system32 location

\$(system_dir) П destination

file

name = MyApp.DLL

end

end

add directory

== AIX" == SunOS OR \$ (os_name) condition = "\$(os_name)

c:/unix/ location

\$ (home_path) 11 destination

file

= MyApp.a name

end

end

Figure 12C

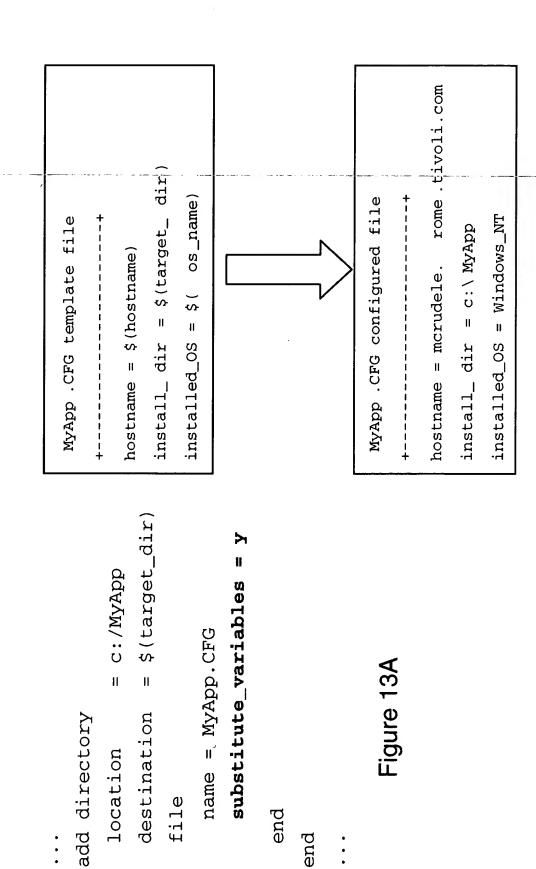
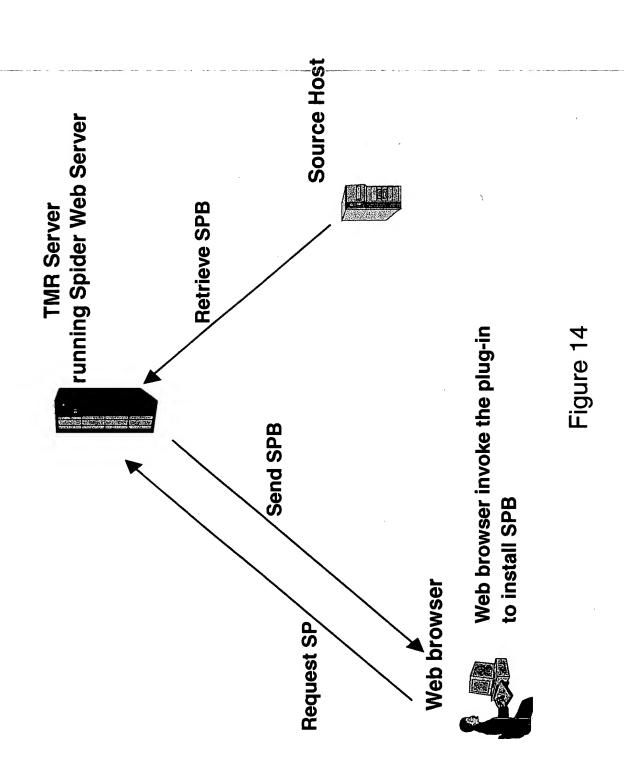


Figure 13B



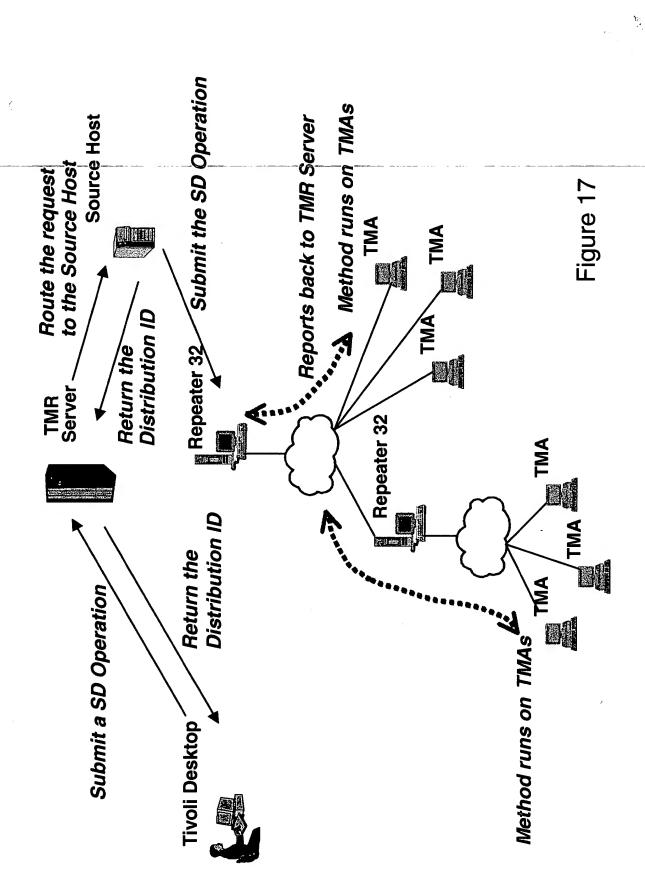
wdcrtsp	Create a SPB file from a SPD file
wdexptsp	Export a SPB file into SPD file
qdsplqpw	Build a SPB file from a SP
autopack	Run AutoPack snapshots/differences
wdinstsp	Install a SPB
wdrmvsp	Remove a SP
wdcmmtsp	Commit a SP
dsopunpm	Undo a SP Install/Remove
wdacptsp	Accept an undoable Install/Remove
wdversp	Verify the state of a SP

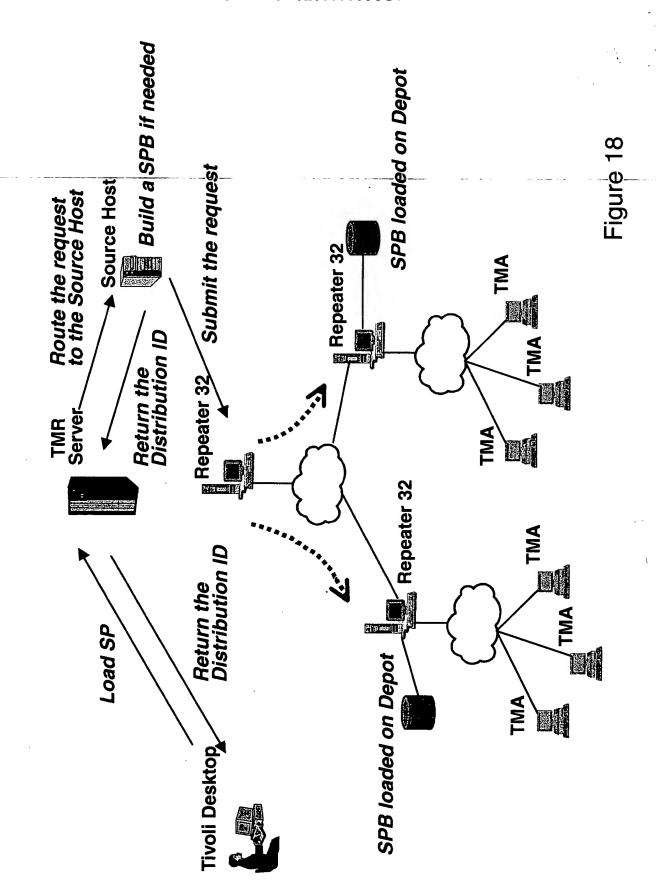
Figure 15

Convert the format of a SPO
Export a SPO into SPD file
Loads SP on one or more Depots
UnLoad a SP from one or more Depots
Install a SP
Remove a SP
Commit a SP
Undo a SP Install/Remove
Accept an undoable Install/Remove
Verify the state of a SP

Figure 16

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	Install	Remove Accept Undo	Accept	Undo	rollBack Commit	Commit	Verify
transactional	X	X		×			
undoable	X	X					
undoable in	X	X					
transactional							
transactional &	X	×					
undoable							

Figure 19

Operation	State	Undo state	Reboot state	Flag
Install	Prepared	Prepared	ReBoot requested	C hanging
Remove	Committed	U ndoable	•	In Error
		Restored		1
		ŧ		

IC--- means that an Install has been committed

IP-BC means that an Install has been prepared and it will be committed ICU-- means that an Install has been committed and can be undone

during the next reboot

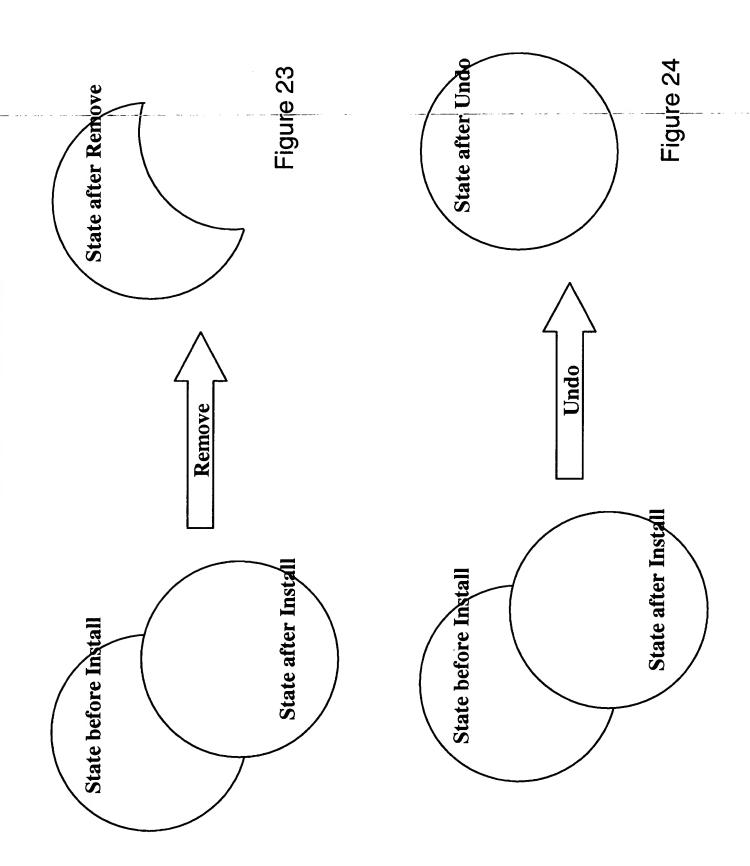
IC--E means that an Install has been committed but the SP is in error, so RCU-- means that a Remove has been committed but it can be undone

the application may not work properly

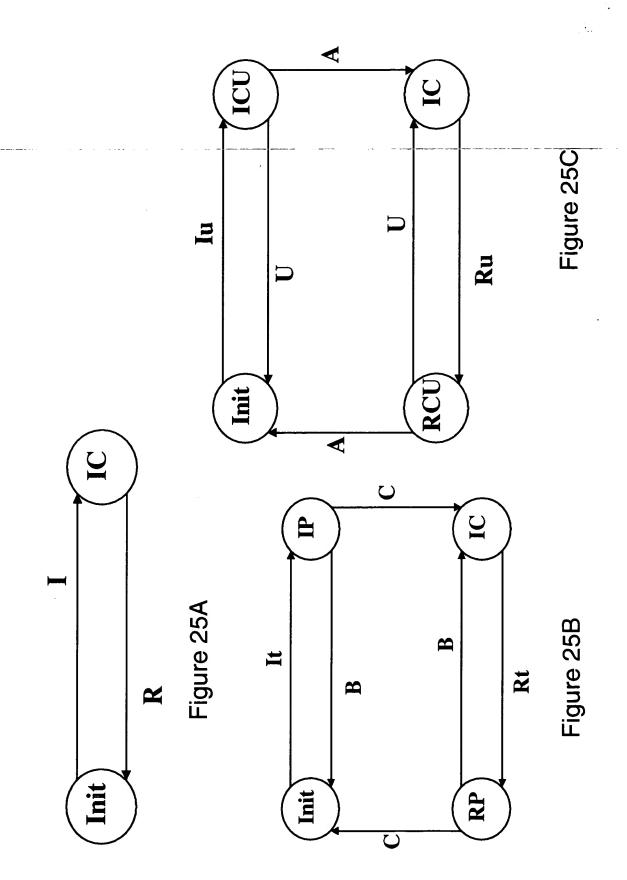
Figure 20

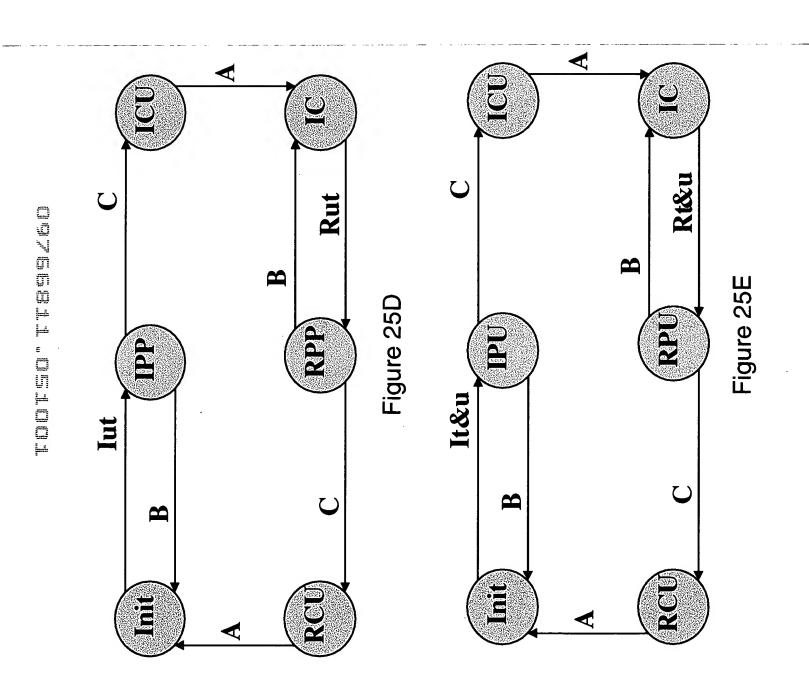
22/27

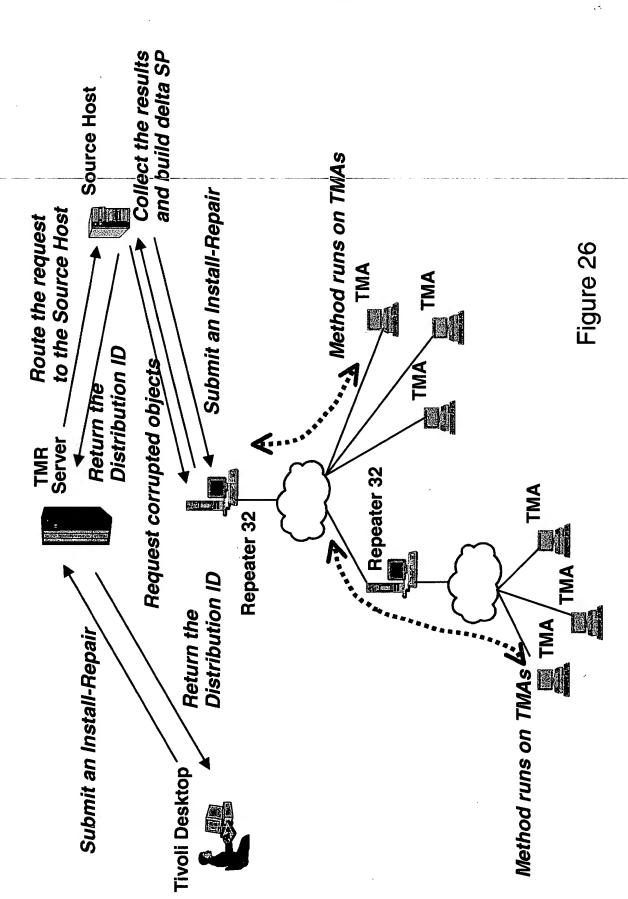
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```
DOYSONNIL OSTOOL
```

```
"USE $(freedrive_01) $(remote_name)"
                                                                                                                                                                                                                                                                                                                                                                                                                                         Figure 27
                                                                                                                                                  ## Run the setup to perform the installation
                                                                                                                                                                                                                 $(freedrive_01)/setup.exe
                                                                                                                                                                                                                                                                                                                                                                 $(system_dir)/NET.EXE
                                                               $(system_dir)/NET.EXE
                                                                                                                                                                                                                                                                                                                                                                                      "$(freedrive_01) /d"
                                                                                                                                                                                                                                                                                                   ## U-mount the image directory
## Mount the image directory
                                                                                                                                                                                                                                      "/Q1 /B1"
                                                                                                                                                                       execute_mssetup_program
                      execute_user_program
                                                                                                                                                                                                                                                                                                                        execute_user_program
                                                                                                                                                                                                                                       н
                                                                                                                                                                                                                                                                                                                                                                                         П
                                          during_install
                                                                                                                                                                                            during_install
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                                                                                     arguments
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                                                                                                         end
                                                                                                                                                                                                                                                           end
                                                                                                                                                                                                                                                                                                                                                                                                            end
                                                                                                                                                                                                                                                                                                                                                                                                                                 end
                                                                                                                               end
                                                                                                                                                                                                                                                                                 end
```